

PCT

INTERNATIONAL-TYPE SEARCH REPORT

(PCT Article 15.5)

National application No. 02025526	Country or Office of filing SE	Applicant's or agent's file reference PU0265-SE
Filing date (day/month/year) 27 August 2002		(Earliest) Priority Date (day/month/year)
Applicant AMERSHAM BIOSCIENCES AB		

Date of request for international-type search 27 August 2002	International-type search request No. SE 02/00816
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This international-type search report has been prepared by this International Searching Authority and is transmitted to the applicant.

This international-type search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☒ Certain claims were found unsearchable (See Box I).
2. ☐ Unity of invention is lacking (See Box II).
3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international-type search was carried out on the basis of the sequence listing
 - ☐ filed with the international application.
 - ☐ furnished by the applicant separately from the international application,
 - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - ☐ transcribed by this Authority.

INTERNATIONAL-TYPE SEARCH REPORT

Search request No.
SE 0000816

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international-type search report has not been established in respect of certain claims for the following reasons:

1. ☐ Claims No.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims No.: 11-13
because they relate to parts of the national application that do not comply with the prescribed requirements to such an extent that no meaningful international-type search can be carried out, specifically:

see next sheet

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international-type search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international-type search report covers only those claims for which fees were paid, specifically claims No.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international-type search report is restricted to the invention first mentioned in the claims, it is covered by claims No.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of:

Claims 11-13 relates to compositions comprising a first and a second polymer each having particular properties, namely, the first polymer should exhibit inverse solubility characteristics below about 60 degrees C, the second should be immiscible in the first. The claims cover all compositions having such polymers, whereas the description support only a limited number of compositions. It is considered impossible to compare the parameters of the claim with known compositions. These parameters are considered to render the scope of the claim unclear, see PCT art 5 and 6. A meaningful search of the whole claimed scope is impossible. The search has been limited to compositions explicitly used, mainly compositions comprising ethylene oxide and propylene oxide copolymers.

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SE 02/00816

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C12N 15/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9811140 A1 (PHAMRACIA & UPJOHN AB), 19 March 1998 (19.03.98), page 14, line 6 - line 11, claims 6,11,12	11-13,22
A	--	1-10,14-21
X	Journal of Chromotography, Volume 864, 1999, Josefine Persson et al, "Purification of protein and recycling of polymers in a new aqueous two-phase system using two thermoseparating polymers", pages 31-48, figure 4	11-13,22
A	--	1-10,14-21

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international-type search

10 March 2003

Date of mailing of the international-type search report

3 4 12

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INTERNATIONAL TYPE SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	International Symposium on Separations for Biotechnology Reading: Separations for biotechnology 3, Cambridge: Royal Society of Chemistry, 1994, Folke Tjerneld et al, "Utilization of Temperature-induced Phase Separation for Purification of Biomolecules", pages 504-511	1-21
X	--	22
A	Biotechnology and Bioengineering, Volume 78, No. 4, 2002, S.C. Ribeiro et al, "Isolation of Plasmid DNA from Cell Lysates by Aqueous Two-Phase Systems", pages 376-384	1-22
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INTERNATIONAL TYPE SEARCH REPORT

Information on [redacted] family members

30/12/02

Search [redacted] Quest No.

SE 02/00816

WO 9811140 A1 19/03/98

AU 4142997 A

02/04/98

EP 0942935 A

22/09/99

JP 2000513945 T

24/10/00

SE 9603303 D

00/00/00